SIEMENS

MAMMOMAT Balance

SP

Planning Guide

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Chapter	Page	Revision
all	all	01

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

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General notes

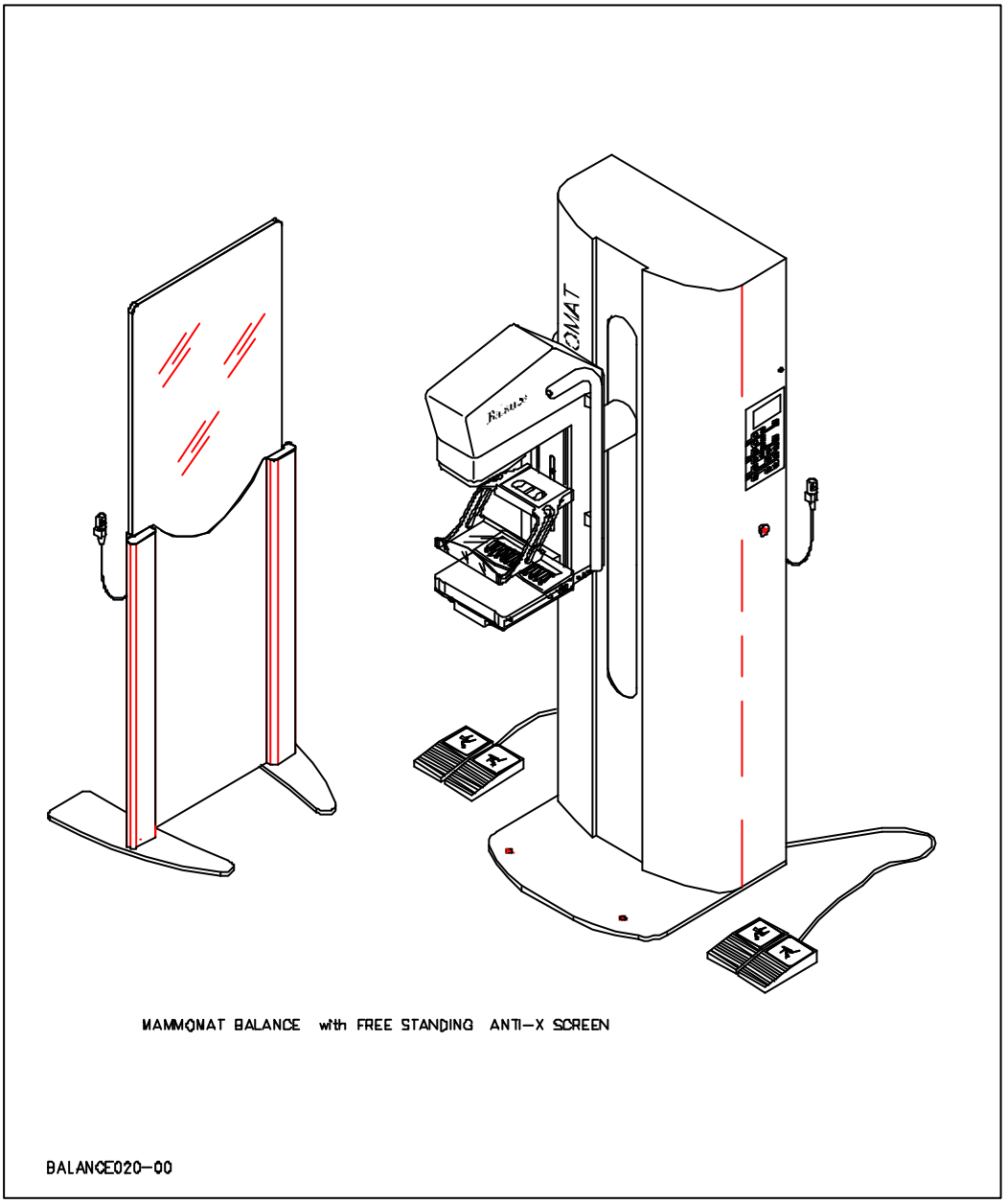
General

- With distribution of this revision level, all preceding planning guides, Speed - Infos (PG's) and drafts lose their validity.
- All layouts issued by the Planning Departments must bear a note referring to the installation and delivery conditions of Siemens Medical Engineering Group. The installation and delivery conditions must be submitted with the layouts.
- Unless otherwise specified, all dimensions are indicated in "mm".
- The symbol indicates a change (see revision status).
- Orientation points
  Points specific to system components to which reference is made when positioning system components to each other or in the room.
  The isocenter of a radiographic system is always illustrated as the orientation point.
- Fixpoints
  Clearly marked points on system components, installation ceiling, walls or floor on which cable outlets are located.
  Illustration in the drawings: circle with letter/number-combination.
  The cable lengths establish the maximum fixpoint distances and thus the maximum distances between the individual system components.
- Room height
  The room height is the distance measured from the top surface of the floor to the bottom surface of the ceiling structural elements (Unistrut rails) (bottom surface of drop ceiling).

Safety

- The provisions of the relevant fire protection regulations must be observed for the premises.
- The system has been developed according to EN 60601 - 1.
- Minimum dimensions (e. g. room heights, safety distances) indicated in the planning guides are marked "min."
- Basic resistance to electromagnetic sources of interference.
  Result of lightning discharges.
  The protection targets of the different lightning protection areas up to the unit connection are also specified in the IEC 1024, DIN 48810, VDE 0675 and in the DEMVT recommendations.

System Configuration

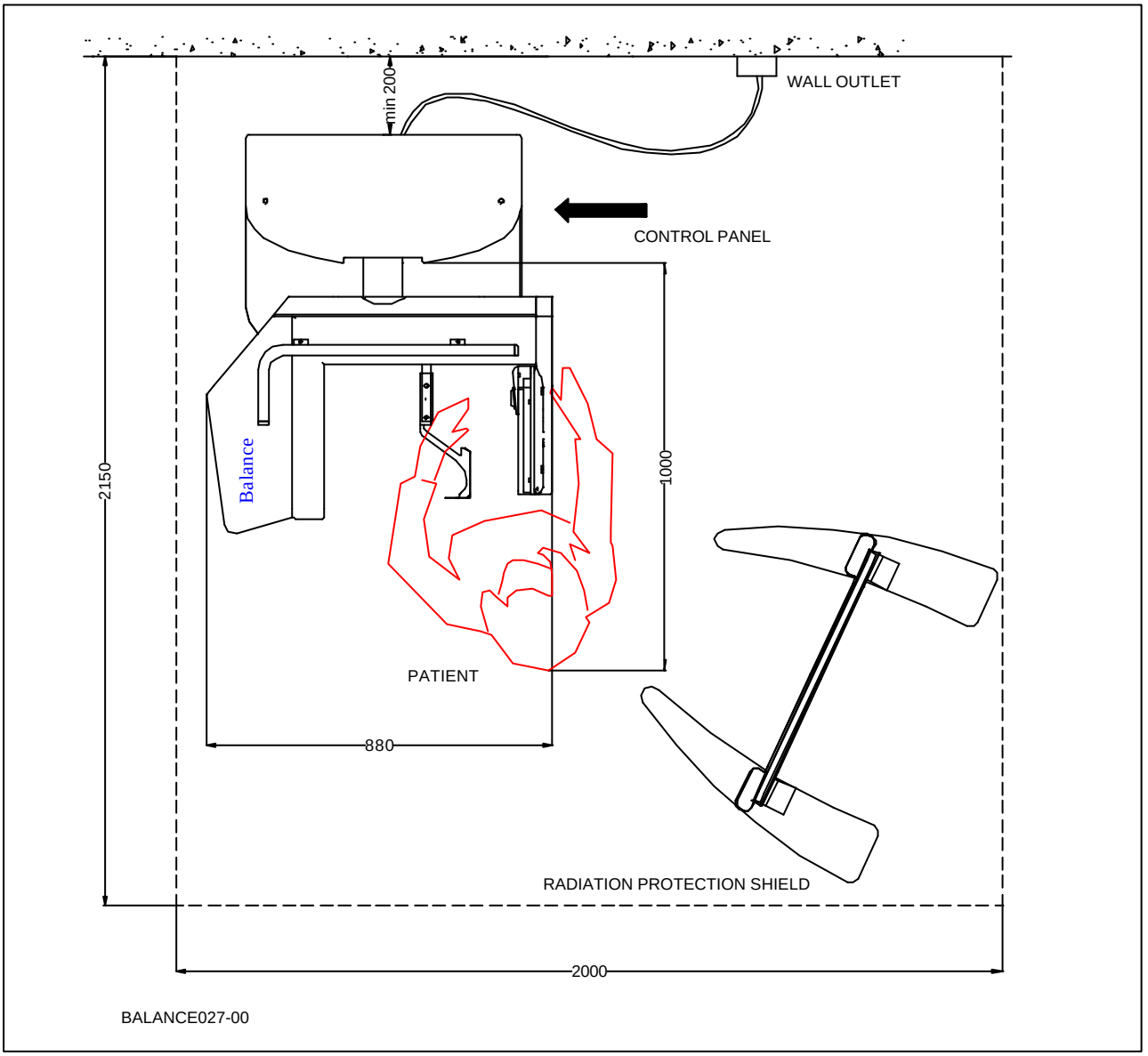


MAMMOMAT Balance with option radiation protection shield

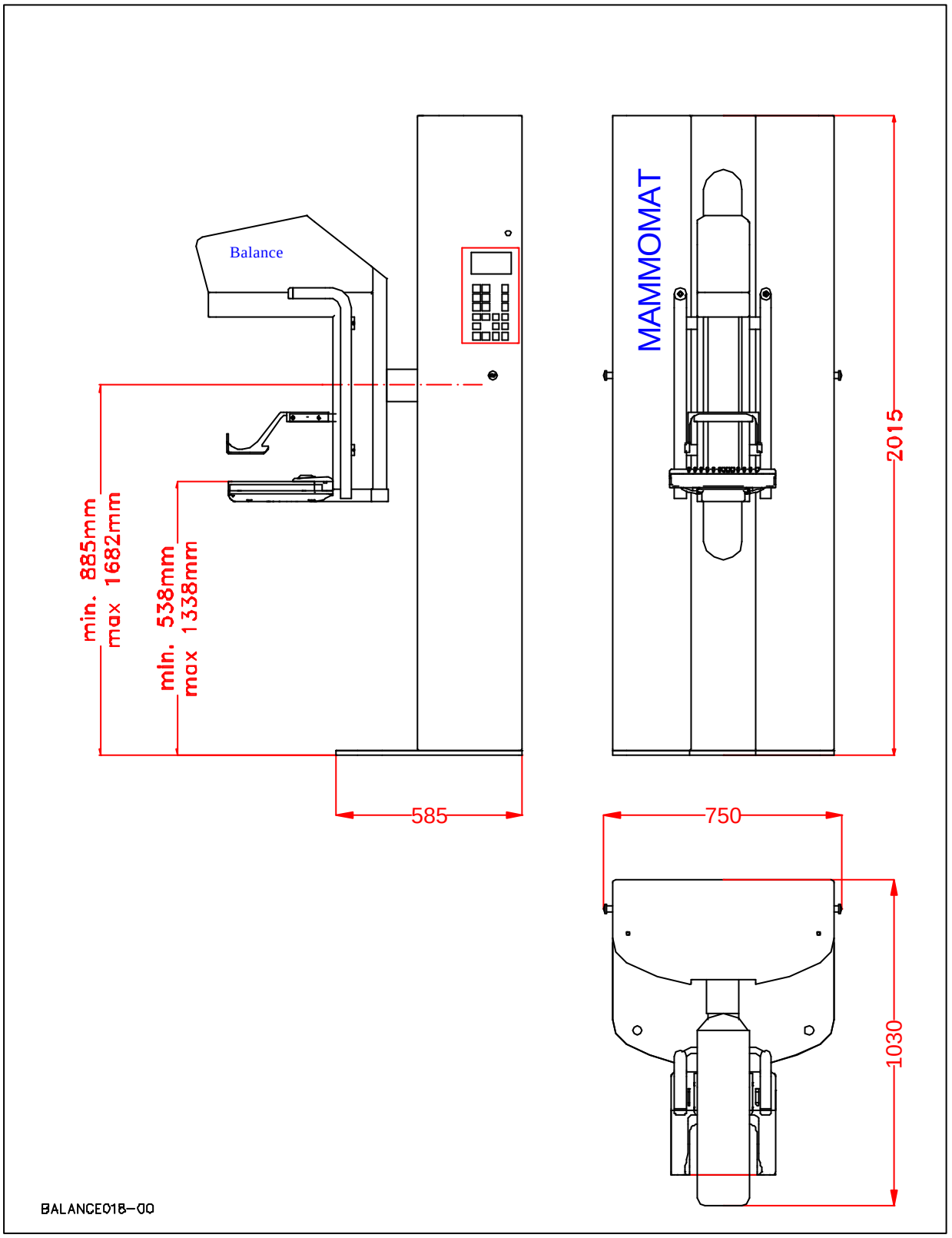
Room Planning

Installation Area

The delivered cable length from unit to the wall outlet is 5m

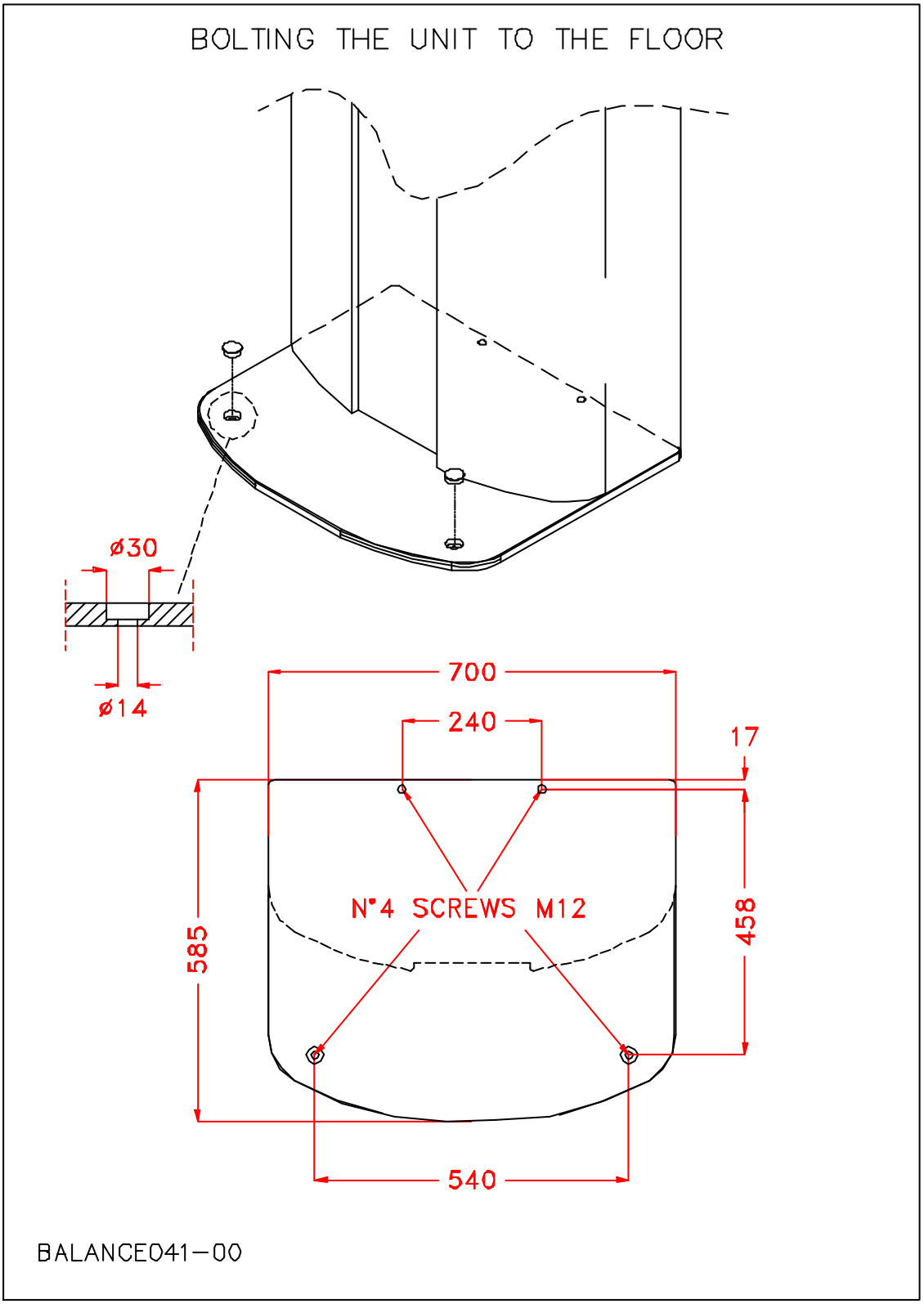


Dimensions of the MAMMOMAT Balance

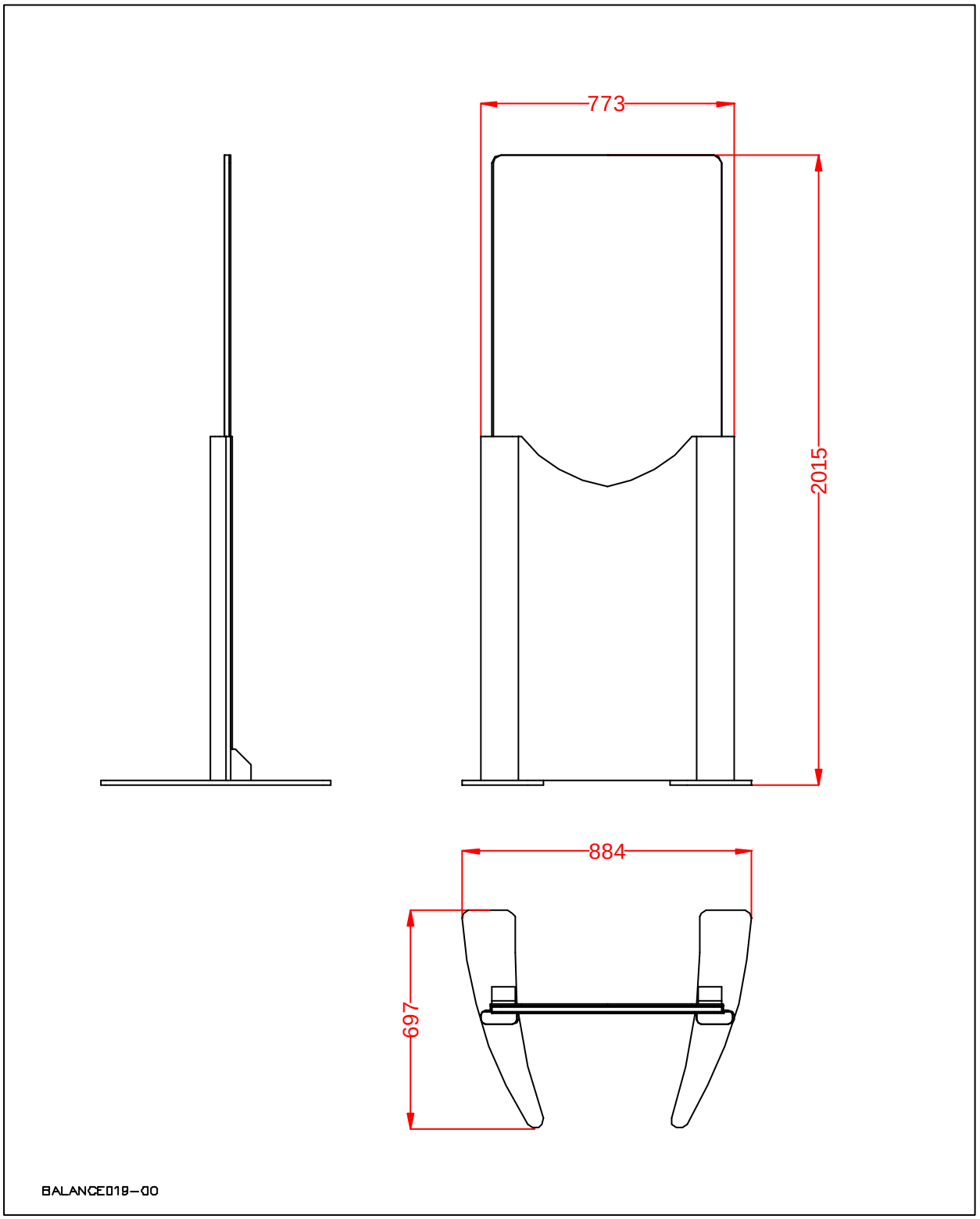


Dimensions of the mounting plate of the stand

In areas subject to earthquakes, the MAMMOMAT Balance must be bolted to the floor according country regulations.



Dimensions for the radiation protection shield (optional)

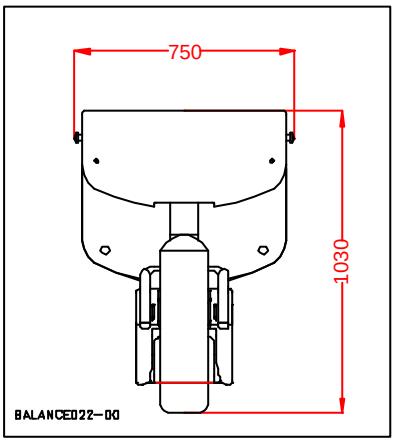


Precaution for installation

Before installation, the purchaser shall verify the suitability of the floor to support the weight of the apparatus, check the ambient temperature and humidity, arrange the electric installation in accordance with the local regulations and complete all the necessaries formalities regarding the possession and operation of any x-ray device.
The device can only be installed by trained personnel duly authorised by the manufacturer, in accordance with technical specifications laid down in this manual. Also take into consideration that any improper use of all x-ray equipment can bring about the following risks:

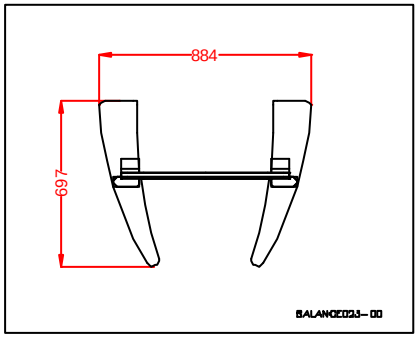
- exposure to X-rays, can be harmful to your health due to ionizing radiation able to cause serious, permanent injuries;
- inside the device, there are dangerous voltages and any contact with them can cause serious injuries or death;
- the unauthorised opening of the tube can cause its implosion and the contact with the high temperature oil inside it can cause burns;
- X-ray output window is made in Beryllium: Do not touch or force it.

MAMMOMAT Balance: dimensions and weight



MAMMOMAT Balance

290 kg

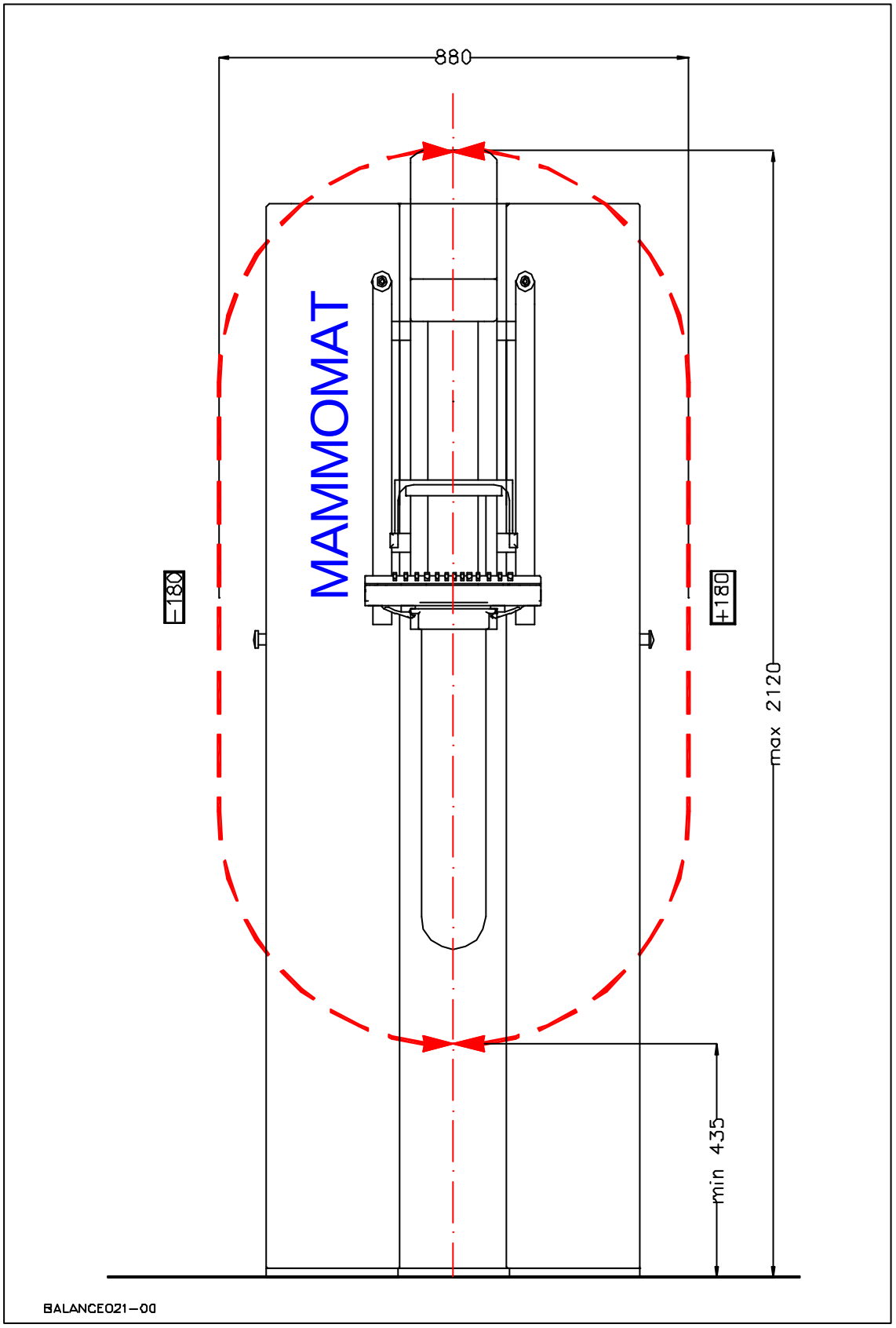


Protective shield

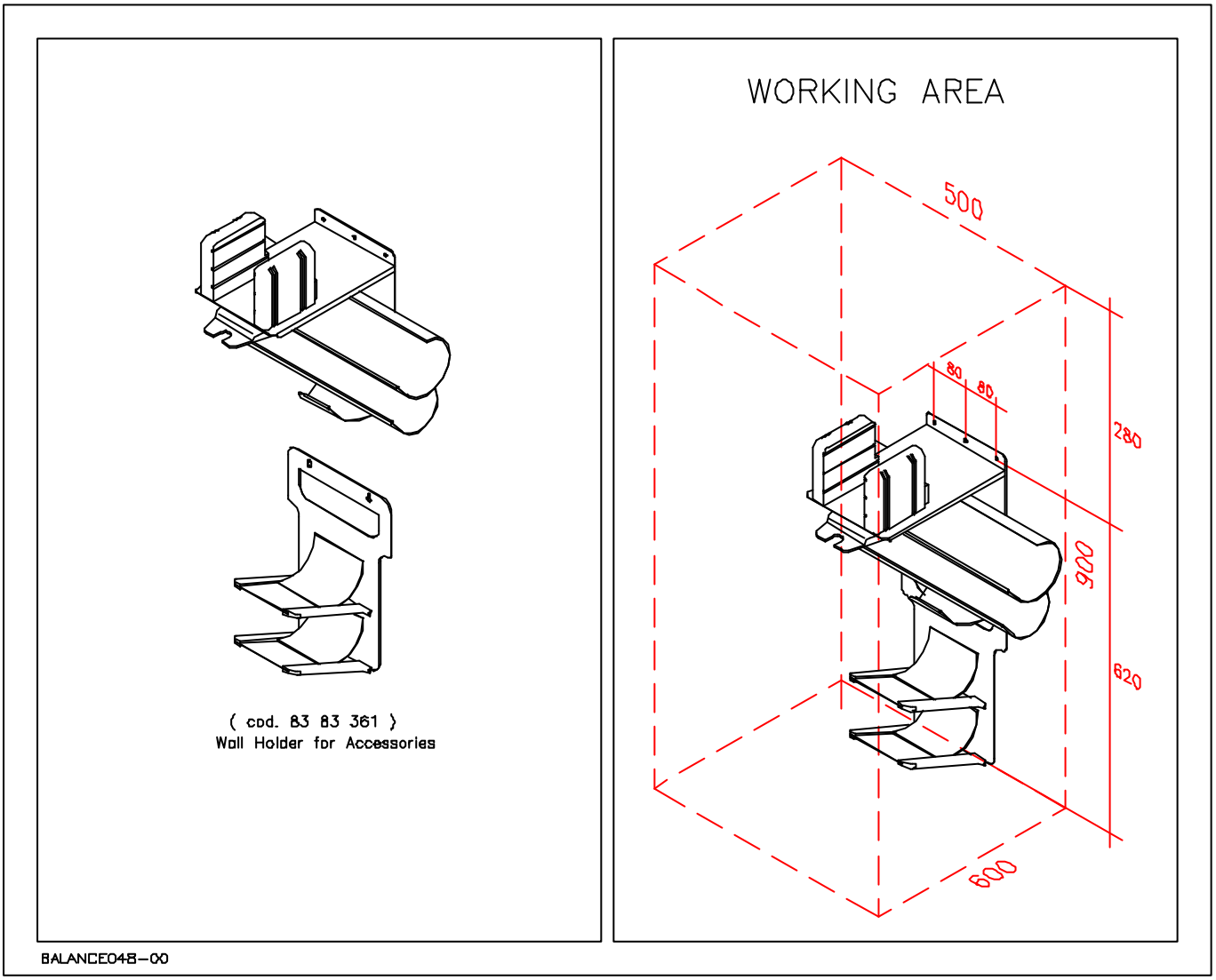
97 kg

N.B.: WHEN CARRYING OUT THE NECESSARY SUPPORT CALCULATION, WEIGHT OF PATIENT AND OPERATOR MUST BE TAKEN INTO CONSIDERATION.

Range of the swivel arm system



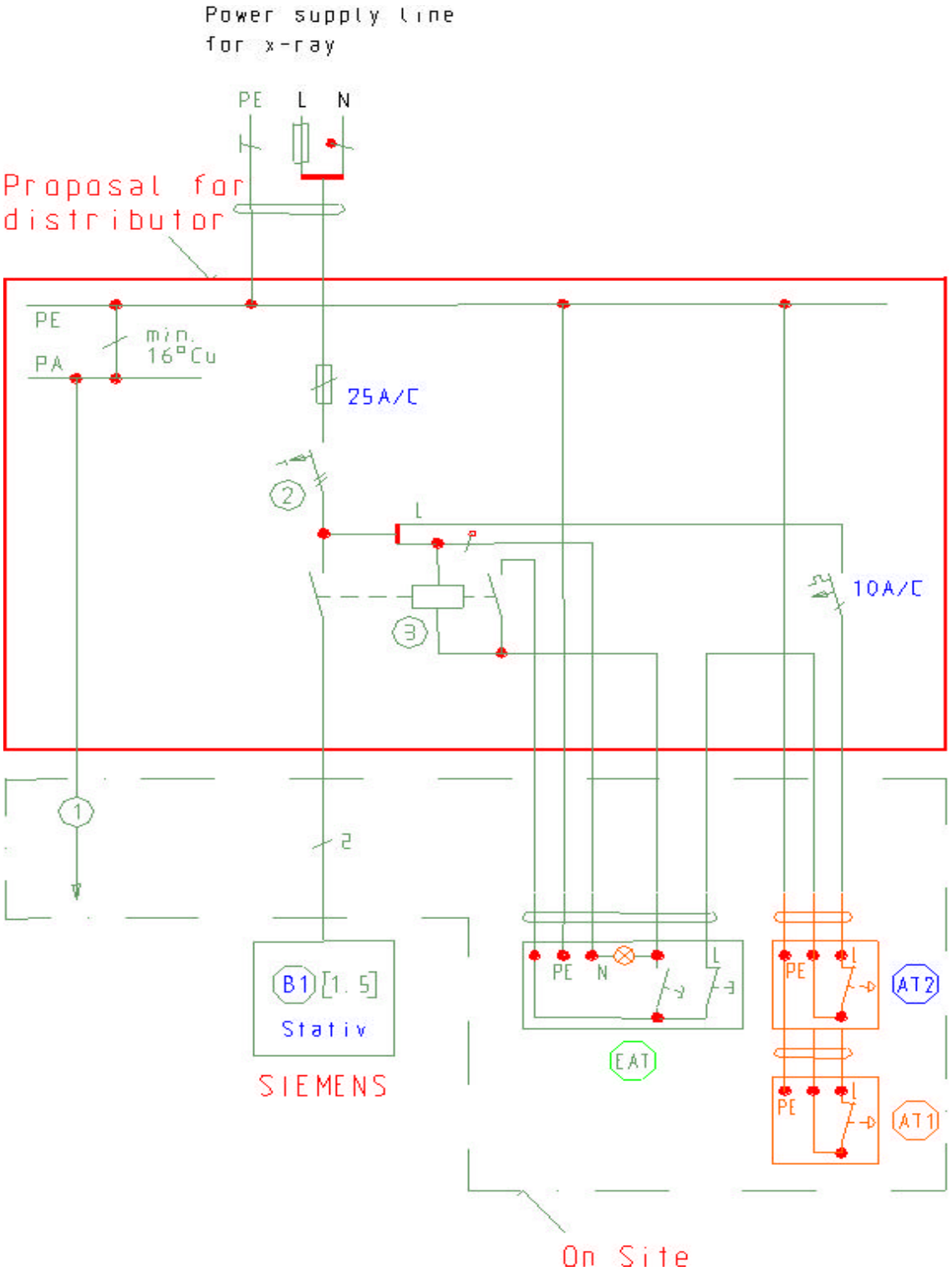
Dimensions of the wall holder for accessories



Preparation for Installation

Recommendation for ON-site Electro Installation

Proposal for building power distribution to DIN VDE 0107 or applicable country – specific regulations



To extraneous conductive parts

Ground fault current interrupter 63A/$I_{?N}$ 30mA universal current

Unit breaker

On-off button with pilot lamp

MAMMOMAT Balance

The listed fuse ratings apply for an operating voltage of 230V 1~.
If there are fluctuating operating voltages, the fuse ratings must be changed to conform to national regulations.

NOTICE

The unit is supplied with single phase Mains input for phase/neutral/protective heart!
If available Mains is phase/phase/protective heart, the blue terminal block for neutral conductor connection must be replaced with a fuse holder with the same fuse rating of the pre existing one for phase conductor connection.

The specification for the fuse is:

[redacted]

For more information, see “Installation and start-up” instruction (SPB7-115.814.01.01…) in intranet.

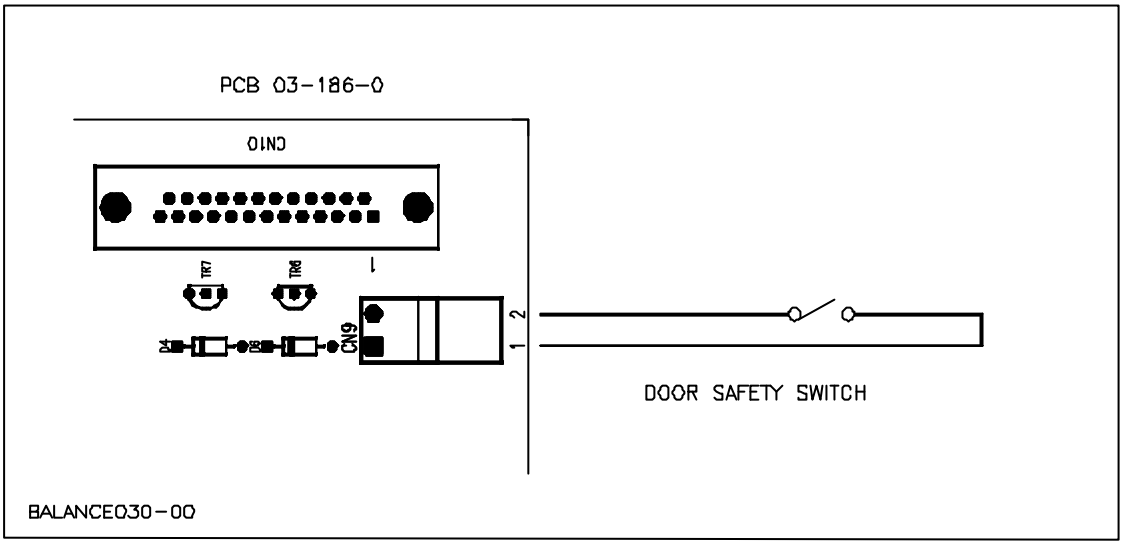
Door safety switch, if present

Input for Door Safety Switch is provided at CN9 PCB 03-186.
Any attempt to start exposure sequence while the door is open will cause the alarm message :

DOOR OPEN

On the display exposure doesn't start.

Opening the door during exposure will have no effect to avoid partial exposure and unusable image.

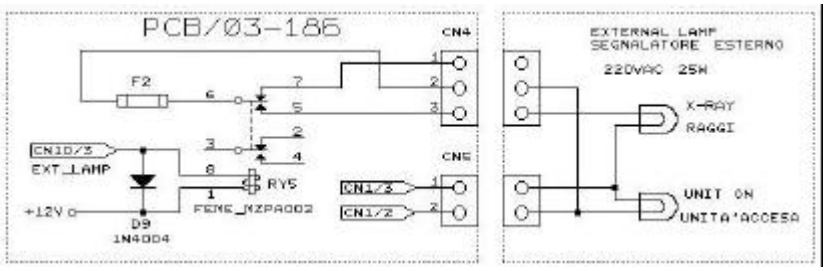


NOTICE **If switch is not connected/used CN9 pins MUST be shorted.**

NOTICE **Low voltage, low current contactors are recommended.**

External lamp, if present

Output connection for external indicator lamp is provided at service board 03-186 CN4, CN5 according to the following schematic.



For example

NOTICE	**Circuit is protected by fuse F2, DO NOT USE LAMPS EXCEEDING 25 W.**

Different wiring. Voltage free contact is available at CN4, CN5 MUST remain disconnected.

Technical Data

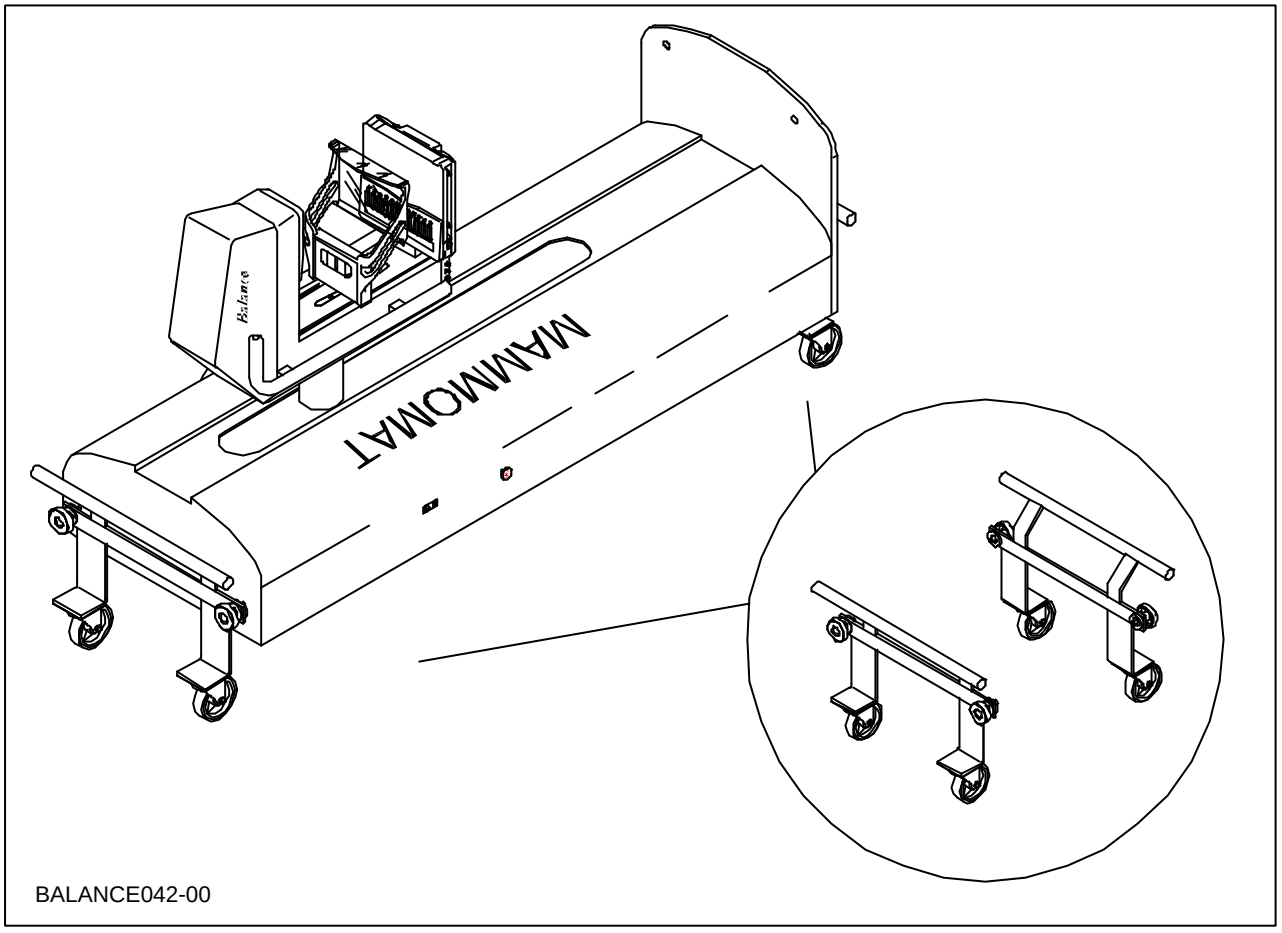
Electrical Data		
Line voltage connection	220/230/240Vac ±10% 50/60Hz	
Power line	Recommended cross section: 6 mm^2	
Internal line Impedance RI	U_N[V] 220/230/240	RI_{max}[O] 0.50
Fuses (Internal)	20 A 220/230/240 Vac	
I max.	30 A at 220 V (2-phase)	
Power consumption	Short term consumption approx. 6.6 kVA	Continous load approx. 0.5 kVA

Environmental conditions	
Storage conditions (while packed)	temperature -20°C / + 70°C relative humidity 10% / 90% barometric pressure 500 hPa/1060 hPa
Operating conditions	temperature +10°C / + 40°C relative humidity 30% / 75% barometric pressure 700 hPa/1060 hPa
Protection degree according to standard IEC 529	IP 10
Heat dissipated in max load condition of 35 kV 500 mAs (1 shot every 5 minutes)	264 kcal/h

Packing and Transport Routes	
Largest crate	L 2200 x W 1050 x H 1320 mm
Heaviest single part	approx. 290 kg
Min. door width	800 mm
Largest single part without packaging	L 2015 x W 750 x H 1030 mm

Paint Colors	
Primary color	Brilliant white, Med. Surface No. 3111
Combination color	Neutral gray textured, Med Surface No. 4426

Transportation Carrier



If the system is being installed, the set of transport castors, Part No.: 8383213 (if not already available) must be ordered in advance.

Changes to Previous Version

Chapter	Page	Change
n.a.	n.a.	n.a.